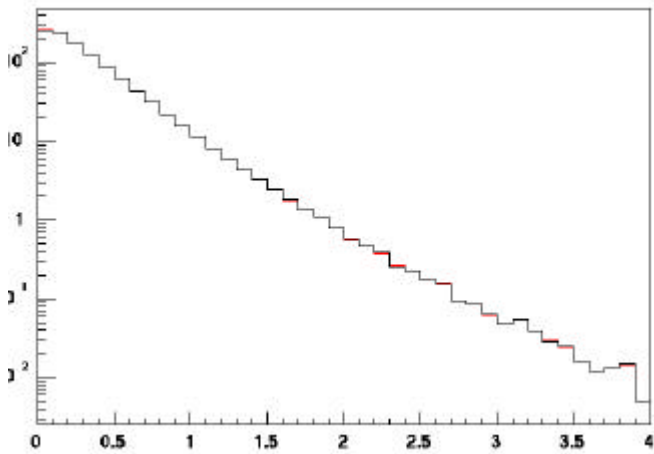


# TPC/HBD Simulation Update

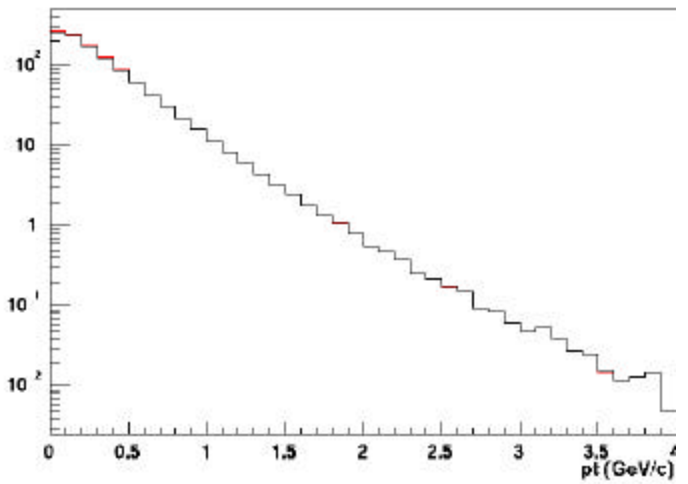
C. Aidala, PHENIX Core Week  
March 2002

0.05

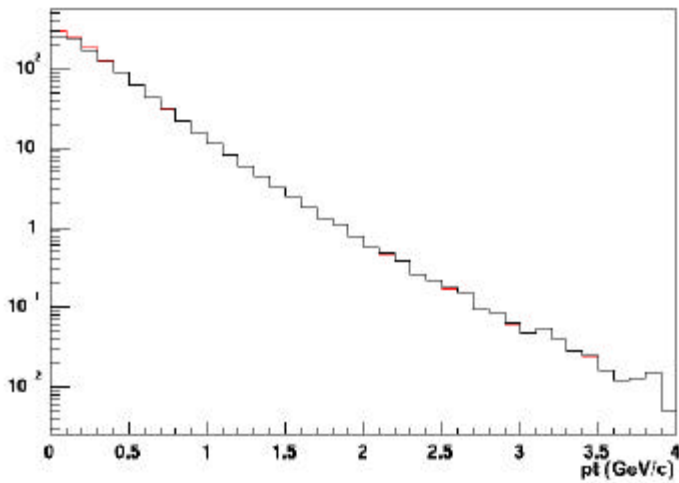
# pt all charged particles



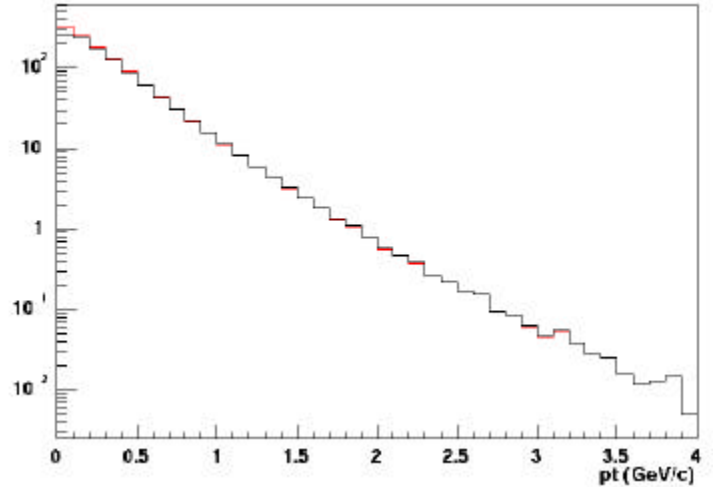
+ nosecones



with TPC/I



ers 1% X0 Si

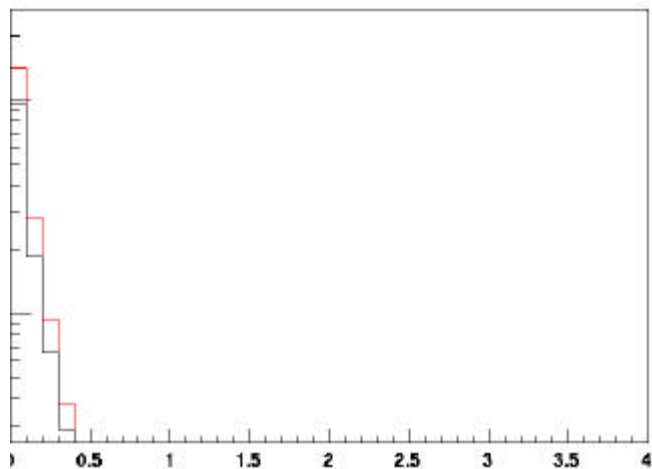


with 4 layers 2%

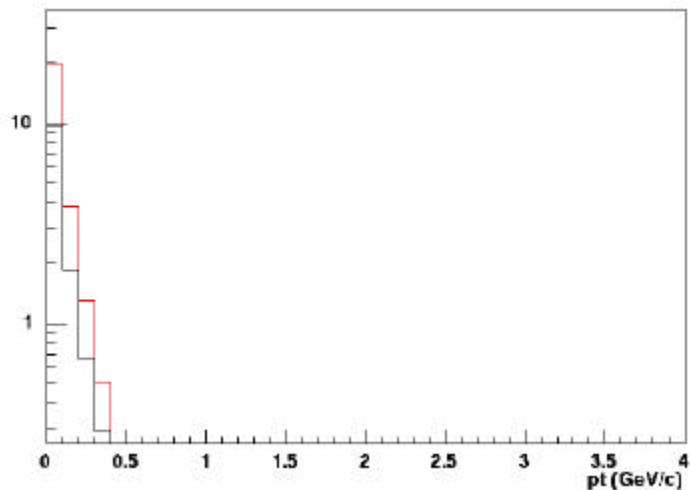
C. Aidala, PHENIX Core Week  
March 2002

PHENIX

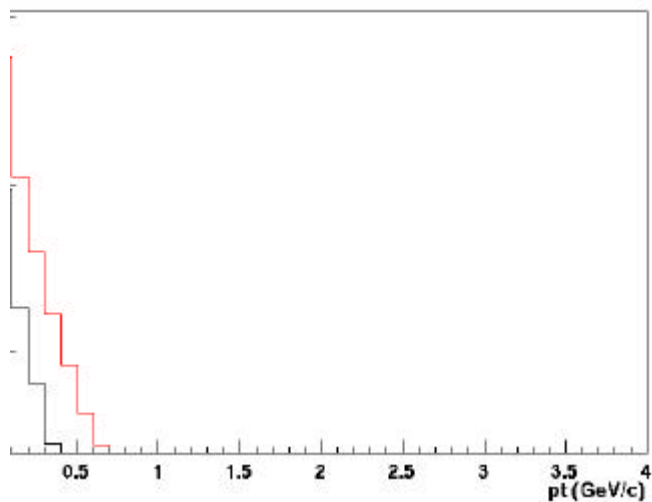
# pt electrons



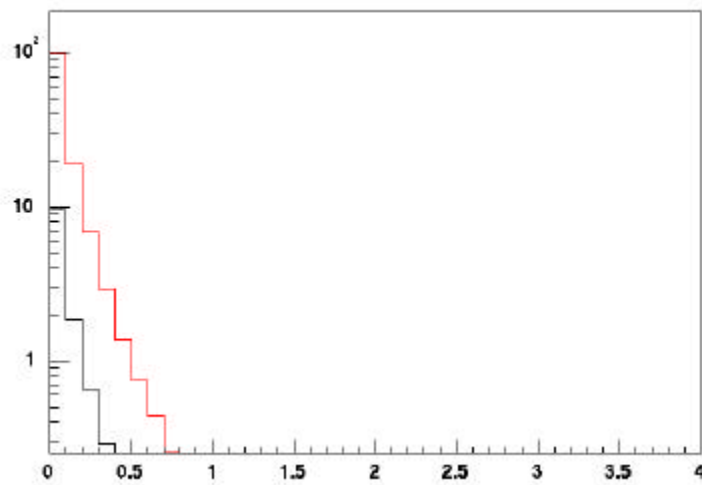
with nosecones



with TPC/HBD



with 4 layers 1% X0 Si

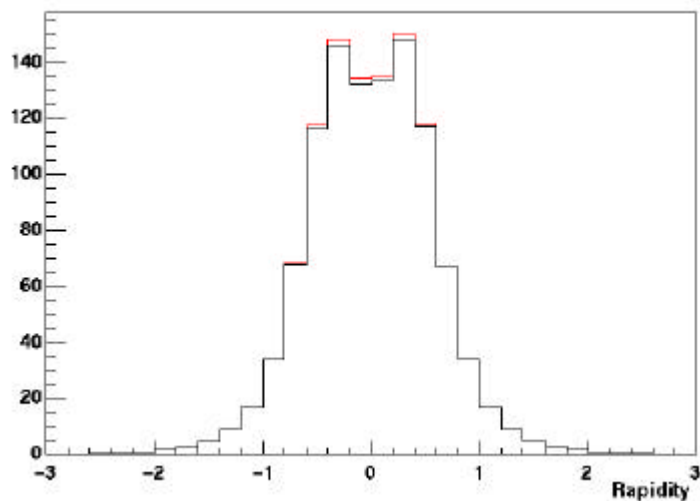


with 4 layers 2% X0

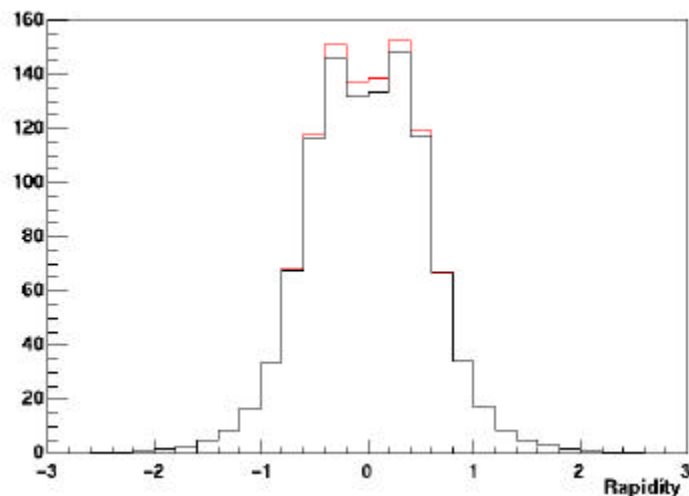
C. Aidala, PHENIX Core Week  
March 2002

0.05

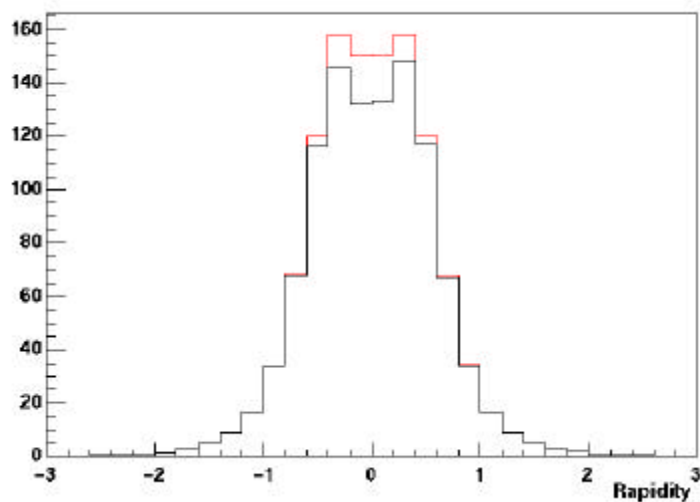
# Rapidity all charged particles



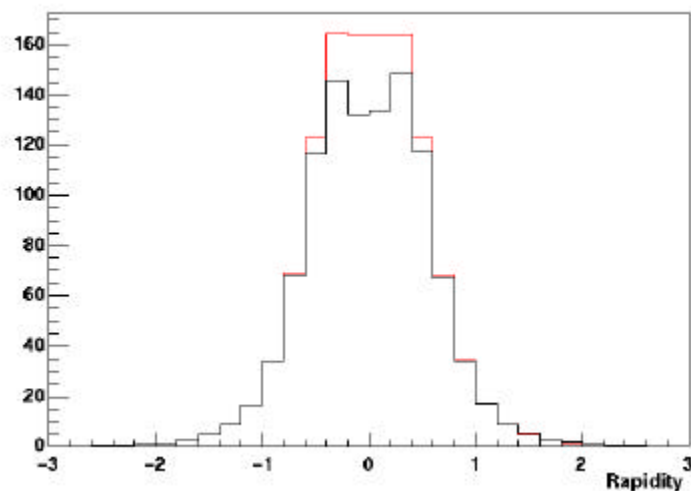
+ nosecones



with TPC/HBD



ers 1% X0 Si

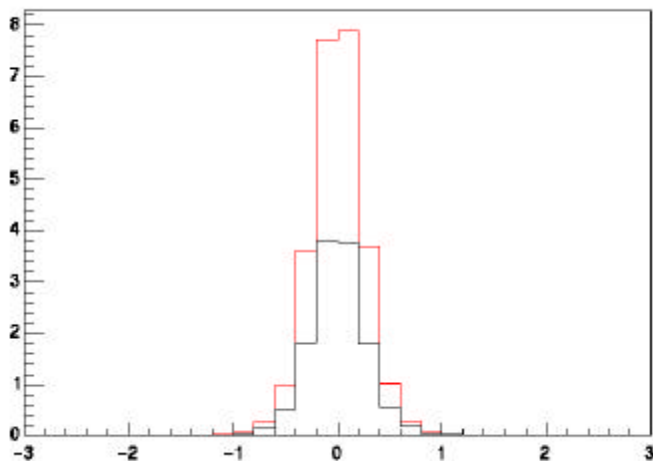
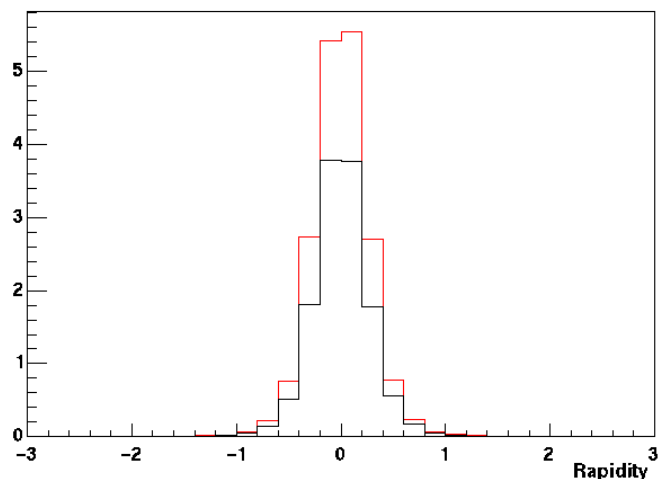


C. Aidala, PHENIX Core Week  
March 2002

with 4 layers 2% X0 Si

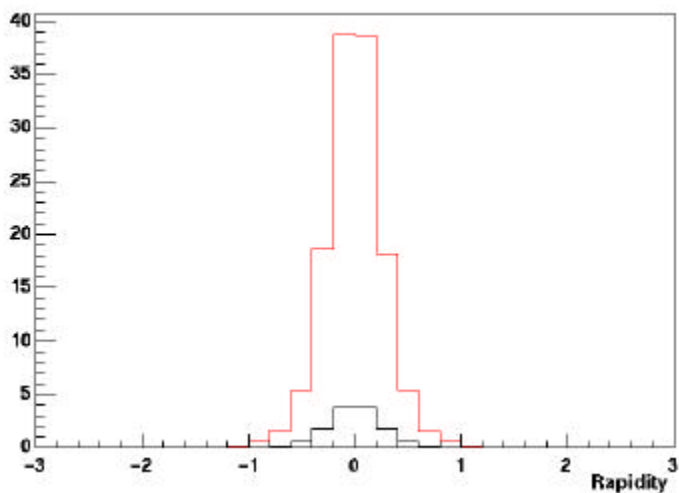
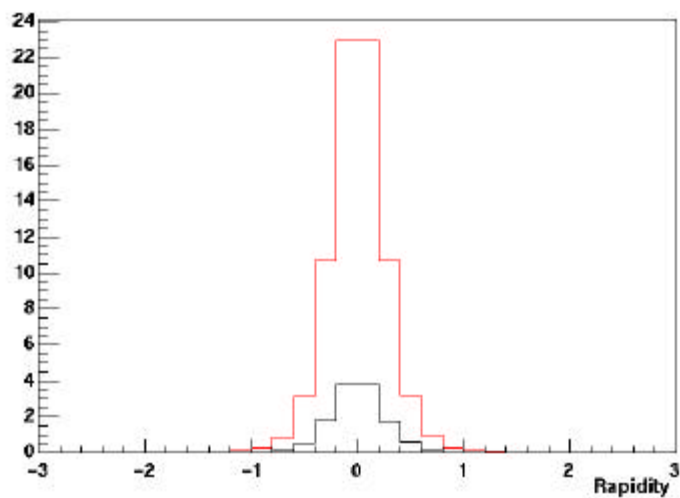
0.5

# Rapidity $e^{+}e^{-}$



+ nosecones

with TPC/HBD



ers 1% Au Si

C. Aidala, PHENIX Core Week  
March 2002

with 4 layers 2% Au Si

# Multiplicities/event

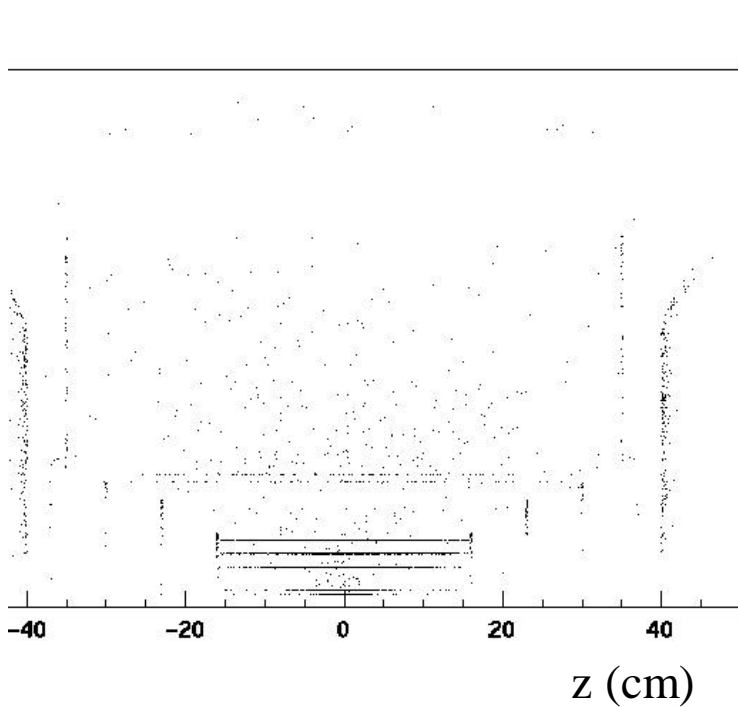
n. 5 hits/track required in TPC from PISA; no fi

particle	EXODUS (averaged over 1000 evts)	+ beampipe and nosecones (1000 evts)	+ TPC/HBD (1000 evts)	TPC/HBD + 4 layers 1% X <sub>0</sub> Si (1000 evts)	TPC/HBD + 4 layers 2% X <sub>0</sub> Si (1000 evts)
charged	1096.1	1107.3	1122.0	1161.7	1207.3
π <sup>±</sup>	57.6	58.6	60.4	63.4	65.3
K <sup>±</sup>	92.7	92.1	92.3	90.5	89.2
p, anti-p	933.0	936.4	943.4	931.2	922.7
Λ, anti-Λ	12.7 (9.1 Dalitz)	18.6	25.8	76.6	130.7

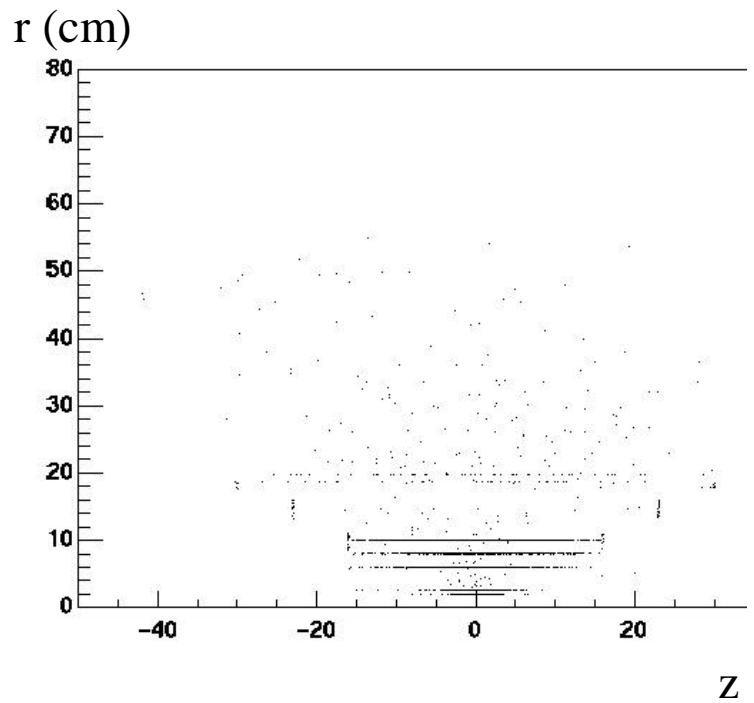
# Conversion vertices

## 4 layers of 1% $X_0$ Si

Selected in phi over 200 events; Conversion  $e^+$  or  $e^-$  producing at least 1 hit in



All conversions



Conversions from “primary  
photons only